

ABSTRACT OF THE DISCLOSURE

The present invention provides fusion proteins for the
5 detection and treatment of neuroectodermal tumors. Previous work
demonstrated that chlorotoxin is specific for glial-derived or
meningioma-derived tumor cells. The current invention has
extended the use of chlorotoxin-cytotoxin fusion proteins to treat the
whole class neuroectodermal tumors such as gliomas, meningiomas,
10 ependymomas, medulloblastomas, neuroblastomas, gangliomas,
pheochromocytomas, melanomas, PPNET's, small cell carcinoma of the
lung, Ewing's sarcoma, and metastatic tumors in the brain. Also,
diagnostic methods are provided for screening neoplastic
neuroectodermal tumors.